

[illegible]

7 a controller connected to the antenna, the
8 controller capable of generating a direction-selection
9 signal to steer the electromagnetic signal to a
10 selected direction corresponding to a high gain
11 position in response to detecting an expected signal
12 transmitted by another one of the communication
13 devices.

3 a transceiver connected to the antenna, the
4 transceiver capable of generating an antenna gain
5 signal in response to detecting the expected signal;
6 and

10

1 18. A wireless network comprising at least
2 first and second communication devices each comprising:

3 an antenna capable of transmitting an
4 electromagnetic signal in a direction having an antenna
5 gain;

6 a transceiver connected to the antenna,
7 the transceiver capable of detecting an expected signal
8 and in response generating an antenna gain signal; and

9 an antenna control unit connected to the
10 transceiver, the antenna control unit capable of
11 generating a direction-selection signal to steer the
12 electromagnetic signal to a selected direction
13 corresponding to a high gain position in response to
14 the antenna gain signal.

1 19. The network of claim 18, wherein the
2 transceiver comprises:

3 a demodulator connected to convert the
4 expected signal to a baseband signal; and

5 a modulator connected to transmit a
6 radio frequency signal to the antenna.

1 20. The network of claim 19, wherein the
2 transceiver further comprises:

3 a low noise amplifier connected between
4 the antenna and the demodulator; and

signal to the selected direction in response to the direction-selection signal.

27. The network of claim 26, wherein at least some of the antenna elements are capable of being activated individually to transmit electromagnetic signals at different power levels.

28. The network of claim 26, wherein the antenna elements are arranged in a plurality of arrays disposed on different planes.

29. The network of claim 28, wherein the antenna elements are disposed on at least three planes to form an electronically steered radiation pattern.

30. The network of claim 18, wherein the antenna comprises a microstrip antenna.

31. The network of claim 18, wherein the antenna of the first communication device is capable of scanning in a plurality of directions until the electromagnetic signal transmitted by the second communication device is detected by the first communication device.

32. The network of claim 31, wherein the antenna of the second communication device is capable

3 of scanning in a plurality of directions until the
4 electromagnetic signal transmitted by the first
5 communication device is detected by the second
6 communication device.

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